

**ABSTRACT****DIVERSITY RECEIVER**

- 5 The present invention relates to receivers, and, more particularly, to improved diversity receivers.

In some environments, such as those subject to multipath reflection or shadowing, some carriers may be received with low power. In these cases, 10 diversity receivers may provide an improvement of around 3dB to 6dB, the latter figure referring to cases where the communication channel is under severe multipath fading and in mobile reception. A diversity receiver effectively comprises two or more separate receivers, or diversity branches, each with its own antenna. Each set of received carriers from each diversity 15 branch is then combined

The present invention provides an improved method and apparatus for receiving multi-carrier signals.

- 20 Figure 2